by averaging a most recent V-V interval duration [and] with a stored previously-computed value

of the first indicated pacing interval; and

     providing pacing therapy, based on the first indicated pacing interval.

28.   (Amended) A method, including:

     detecting an atrial tachyarrhythmia;

     obtaining V-V intervals between ventricular beats;

     computing a first indicated pacing interval [from] by averaging a most recent V-V

interval duration [and] with a previous value of the first indicated pacing interval; and

     providing pacing therapy, based on the first indicated pacing interval, when the atrial

tachyarrhythmia is present.

58.   (Amended) A cardiac rhythm management system, including:

     a ventricular sensing circuit for sensing ventricular beats;

     a controller, obtaining V-V intervals between ventricular beats and [recursively]

computing a first indicated pacing interval, for a most recent V-V interval concluded by a paced

beat and for a most recent V-V interval concluded by a sensed beat, [using] by averaging a most

recent V-V interval duration [and] with a stored previously-computed value of the first indicated

pacing interval; and

     a ventricular therapy circuit, providing pacing therapy based on the first indicated pacing

interval.

63.   (Amended) A cardiac rhythm management system, including:

a ventricular sensing circuit;

a controller, the controller including:

a V-V interval timer;

a first register, for storing a first indicated pacing interval;

a filter, [recursively] updating the first indicated pacing interval, for a most recent

V-V interval concluded by a paced beat and for a most recent V-V interval concluded by

a sensed beat, [using] by averaging the most recent V-V interval stored in the V-V

interval timer [and] with the previously-computed stored value of first indicated pacing

interval stored in the first register; and

a ventricular therapy circuit, providing pacing therapy based at least partially on the first

indicated pacing interval.

91.   (Amended) A cardiac rhythm management system, including:

a ventricular sensing circuit;

a controller, the controller including:

a V-V interval timer;

a first register, for storing a first indicated pacing interval;

means for [recursively] updating the first indicated pacing interval, for a most

recent V-V interval concluded by a paced and for a most recent V-V interval concluded

by a sensed beat, [using] by averaging a most recent V-V interval duration [and] with a

stored previously-computed value of the first indicated pacing interval; and

a ventricular therapy circuit, providing pacing therapy based at least partially on the first

indicated pacing interval.